

Solving Systems of Equations by Substitution

Date_____ Period____

Solve each system by substitution.

1) $y = 6x - 11$
 $-2x - 3y = -7$

2) $2x - 3y = -1$
 $y = x - 1$

3) $y = -3x + 5$
 $5x - 4y = -3$

4) $-3x - 3y = 3$
 $y = -5x - 17$

5) $y = -2$
 $4x - 3y = 18$

6) $y = 5x - 7$
 $-3x - 2y = -12$

7) $-4x + y = 6$
 $-5x - y = 21$

8) $-7x - 2y = -13$
 $x - 2y = 11$

9) $-5x + y = -2$
 $-3x + 6y = -12$

10) $-5x + y = -3$
 $3x - 8y = 24$

$$11) \begin{aligned} x + 3y &= 1 \\ -3x - 3y &= -15 \end{aligned}$$

$$12) \begin{aligned} -3x - 8y &= 20 \\ -5x + y &= 19 \end{aligned}$$

$$13) \begin{aligned} -3x + 3y &= 4 \\ -x + y &= 3 \end{aligned}$$

$$14) \begin{aligned} -3x + 3y &= 3 \\ -5x + y &= 13 \end{aligned}$$

$$15) \begin{aligned} 6x + 6y &= -6 \\ 5x + y &= -13 \end{aligned}$$

$$16) \begin{aligned} 2x + y &= 20 \\ 6x - 5y &= 12 \end{aligned}$$

$$17) \begin{aligned} -3x - 4y &= 2 \\ 3x + 3y &= -3 \end{aligned}$$

$$18) \begin{aligned} -2x + 6y &= 6 \\ -7x + 8y &= -5 \end{aligned}$$

$$19) \begin{aligned} -5x - 8y &= 17 \\ 2x - 7y &= -17 \end{aligned}$$

$$20) \begin{aligned} -2x - y &= -9 \\ 5x - 2y &= 18 \end{aligned}$$

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Solve each system by substitution.

1)
$$\begin{aligned}y &= 6x - 11 \\-2x - 3y &= -7\end{aligned}$$

(2, 1)

2)
$$\begin{aligned}2x - 3y &= -1 \\y &= x - 1\end{aligned}$$

(4, 3)

3)
$$\begin{aligned}y &= -3x + 5 \\5x - 4y &= -3\end{aligned}$$

(1, 2)

4)
$$\begin{aligned}-3x - 3y &= 3 \\y &= -5x - 17\end{aligned}$$

(-4, 3)

5)
$$\begin{aligned}y &= -2 \\4x - 3y &= 18\end{aligned}$$

(3, -2)

6)
$$\begin{aligned}y &= 5x - 7 \\-3x - 2y &= -12\end{aligned}$$

(2, 3)

7)
$$\begin{aligned}-4x + y &= 6 \\-5x - y &= 21\end{aligned}$$

(-3, -6)

8)
$$\begin{aligned}-7x - 2y &= -13 \\x - 2y &= 11\end{aligned}$$

(3, -4)

9)
$$\begin{aligned}-5x + y &= -2 \\-3x + 6y &= -12\end{aligned}$$

(0, -2)

10)
$$\begin{aligned}-5x + y &= -3 \\3x - 8y &= 24\end{aligned}$$

(0, -3)

$$\begin{aligned}11) \quad & x + 3y = 1 \\& -3x - 3y = -15\end{aligned}$$

(7, -2)

$$\begin{aligned}12) \quad & -3x - 8y = 20 \\& -5x + y = 19\end{aligned}$$

(-4, -1)

$$\begin{aligned}13) \quad & -3x + 3y = 4 \\& -x + y = 3\end{aligned}$$

No solution

$$\begin{aligned}14) \quad & -3x + 3y = 3 \\& -5x + y = 13\end{aligned}$$

(-3, -2)

$$\begin{aligned}15) \quad & 6x + 6y = -6 \\& 5x + y = -13\end{aligned}$$

(-3, 2)

$$\begin{aligned}16) \quad & 2x + y = 20 \\& 6x - 5y = 12\end{aligned}$$

(7, 6)

$$\begin{aligned}17) \quad & -3x - 4y = 2 \\& 3x + 3y = -3\end{aligned}$$

(-2, 1)

$$\begin{aligned}18) \quad & -2x + 6y = 6 \\& -7x + 8y = -5\end{aligned}$$

(3, 2)

$$\begin{aligned}19) \quad & -5x - 8y = 17 \\& 2x - 7y = -17\end{aligned}$$

(-5, 1)

$$\begin{aligned}20) \quad & -2x - y = -9 \\& 5x - 2y = 18\end{aligned}$$

(4, 1)